

Leading the Launch



IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

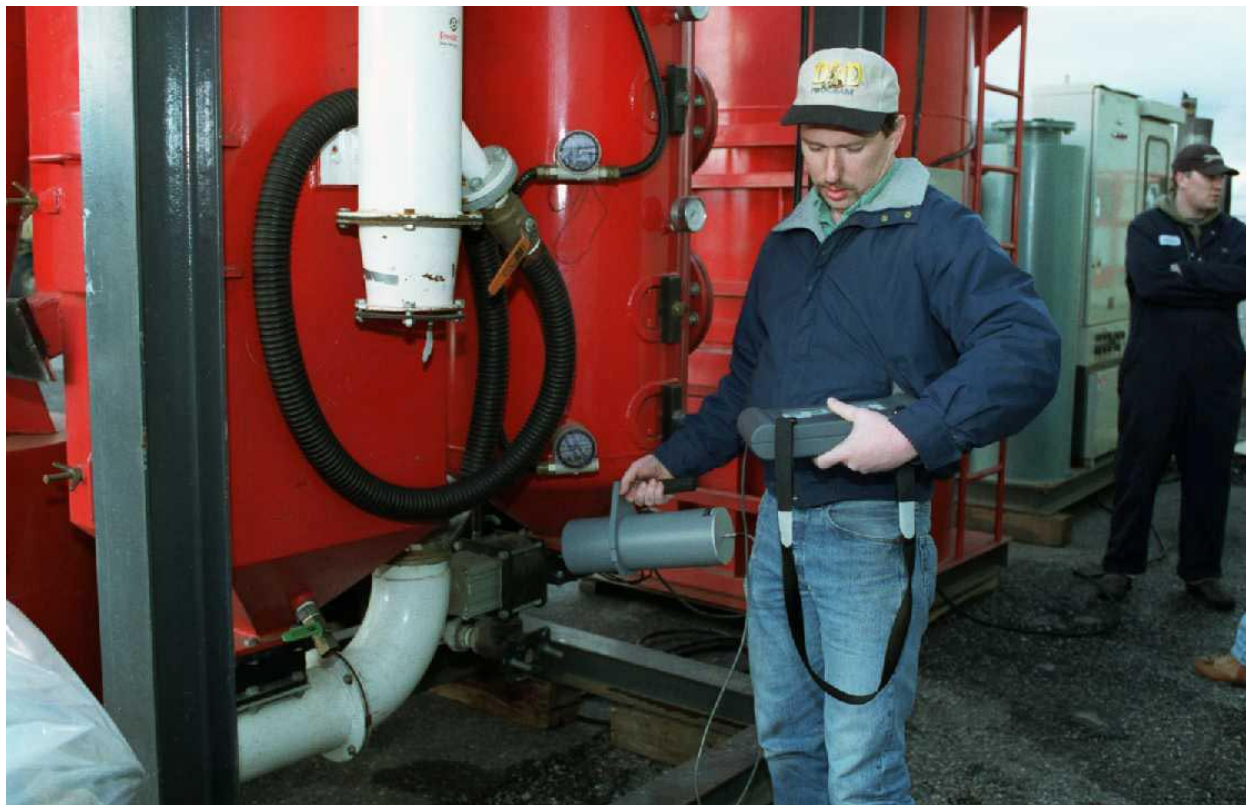
*Delivering a payload of
responsive technologies*



Technology Deployment



HOME OF SCIENCE AND ENGINEERING SOLUTIONS



Surveillance and Measurement System

Problem

INEEL's Test Area North Remediation project needed to rapidly detect and identify radioactive contaminants in the field.

Baseline Technology

Survey and collect samples for off-site radioisotope identification.

Innovative Technology

The Surveillance and Measure System is a hand-held instrument with data analysis capabilities to rapidly detect and identify up to 70 radionuclides.

Comparison

This system enables field workers to quickly detect and identify radioactive contaminants, while the baseline approach requires collection of smears and up to 90 days to complete off-site analysis.

Benefits

This system enabled the project to reduce worker exposure, accelerate schedule, and accrue a cost avoidance of \$150 per sample.



Surveillance and Measurement System

Problem

INEEL's Power Burst Facility/Auxiliary Reactor Area Remediation project needed to detect and identify radioactive contaminants in an open trench at Auxillary Reactor Area II.

Baseline Technology

Survey and collect samples for off-site radioisotope identification.

Innovative Technology

The Surveillance and Measure System is a field-portable instrument, light enough to be delivered by the ANDROS robot, which can rapidly detect and identify up to 70 radionuclides.

Comparison

This system rapidly detects and identifies radioactive contaminants, while the baseline approach requires collection of samples for off-site analysis.

Benefits

This system enabled the project to reduce worker exposure and accelerate schedule.

